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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	DEC 01	ChemPort single article sales feature unavailable
NEWS	3	APR 03	CAS coverage of exemplified prophetic substances enhanced
NEWS	4	APR 07	STN is raising the limits on saved answers
NEWS	5	APR 24	CA/CAPLUS now has more comprehensive patent assignee information
NEWS	6	APR 26	USPATFULL and USPAT2 enhanced with patent assignment/reassignment information
NEWS	7	APR 28	CAS patent authority coverage expanded
NEWS	8	APR 28	ENCOMPLIT/ENCOMPLIT2 search fields enhanced
NEWS	9	APR 28	Limits doubled for structure searching in CAS REGISTRY
NEWS	10	MAY 08	STN Express, Version 8.4, now available
NEWS	11	MAY 11	STN on the Web enhanced
NEWS	12	MAY 11	BEILSTEIN substance information now available on STN Easy
NEWS	13	MAY 14	DGENE, PCTGEN and USGENE enhanced with increased limits for exact sequence match searches and introduction of free HIT display format
NEWS	14	MAY 15	INPADOCDB and INPAFAMDB enhanced with Chinese legal status data
NEWS	15	MAY 28	CAS databases on STN enhanced with NANO super role in records back to 1992
NEWS	16	JUN 01	CAS REGISTRY Source of Registration (SR) searching enhanced on STN
NEWS	17	JUN 26	NUTRACEUT and PHARMAML no longer updated
NEWS	18	JUN 29	IMSCOPROFILE now reloaded monthly
NEWS	19	JUN 29	EPFULL adds Simultaneous Left and Right Truncation (SLART) to AB, MCLM, and TI fields
NEWS	20	JUL 09	PATDPAFULL adds Simultaneous Left and Right Truncation (SLART) to AB, CLM, MCLM, and TI fields
NEWS	21	JUL 14	USGENE enhances coverage of patent sequence location (PSL) data
NEWS	22	JUL 27	CA/CAPLUS enhanced with new citing references
NEWS	23	JUL 16	GBFULL adds patent backfile data to 1855
NEWS	24	JUL 21	USGENE adds bibliographic and sequence information
NEWS	25	JUL 28	EPFULL adds first-page images and applicant-cited references
NEWS	26	JUL 28	INPADOCDB and INPAFAMDB add Russian legal status data

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,  
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 09:46:00 ON 04 AUG 2009

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 09:46:17 ON 04 AUG 2009

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 AUG 2009 HIGHEST RN 1171815-79-4

DICTIONARY FILE UPDATES: 2 AUG 2009 HIGHEST RN 1171815-79-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

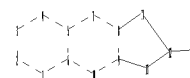
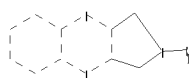
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\STNEXP\Queries\10560095.str



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chain nodes :
14
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13
chain bonds :
12-14
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-13 11-12 12-13
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 11-12 12-13 12-14
exact bonds :
8-11 9-13
isolated ring systems :
containing 1 :

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G1:H,Ak

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:CLASS

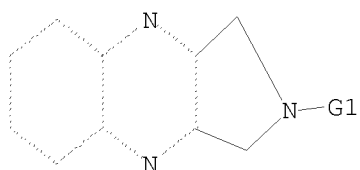
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L1 STRUCTURE UPLOADED

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=> d l1
L1 HAS NO ANSWERS
L1 STR

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G1 H,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 09:54:54 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 1111 TO ITERATE

100.0% PROCESSED 1111 ITERATIONS 6 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 20221 TO 24219  
PROJECTED ANSWERS: 6 TO 265

L2 6 SEA SSS SAM L1

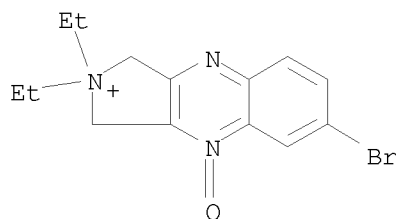
=> s l1 sss full  
FULL SEARCH INITIATED 09:55:03 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 22005 TO ITERATE

100.0% PROCESSED 22005 ITERATIONS 82 ANSWERS  
SEARCH TIME: 00.00.02

L3 82 SEA SSS FUL L1

=> d scan

L3 82 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 1H-Pyrrolo[3,4-b]quinoxalinium, 6-bromo-2,2-diethyl-2,3-dihydro-, 4-oxide  
MF C14 H17 Br N3 O  
CI COM



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> fil cap

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	192.60	192.82

FILE 'CAPLUS' ENTERED AT 09:55:21 ON 04 AUG 2009  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE COVERS 1907 - 4 Aug 2009 VOL 151 ISS 6  
FILE LAST UPDATED: 3 Aug 2009 (20090803/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

CAPLUS now includes complete International Patent Classification (IPC)  
reclassification data for the second quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAPLUS family  
of databases have been updated to include new citing references  
information. This enhancement may impact record import into  
database management software. For additional information, refer  
to NEWS 22.

=> d his

(FILE 'HOME' ENTERED AT 09:46:00 ON 04 AUG 2009)

FILE 'REGISTRY' ENTERED AT 09:46:17 ON 04 AUG 2009

L1 STRUCTURE UPLOADED

L2 6 S L1

L3 82 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 09:55:21 ON 04 AUG 2009

=> s l3

L4 31 L3

=> s l3 and (pry<2005)

31 L3

4610748 PRY<2005

L5 5 L3 AND (PRY<2005)

=> d 1-5 ibib abs hitstr

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:1080987 CAPLUS

DOCUMENT NUMBER: 142:58224

TITLE: Heterocyclic colorants based on diazabenzisoindoles.

INVENTOR(S): Heckmann, Heino; Metz, Hans Joachim

PATENT ASSIGNEE(S): Clariant G.m.b.H., Germany

SOURCE: PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

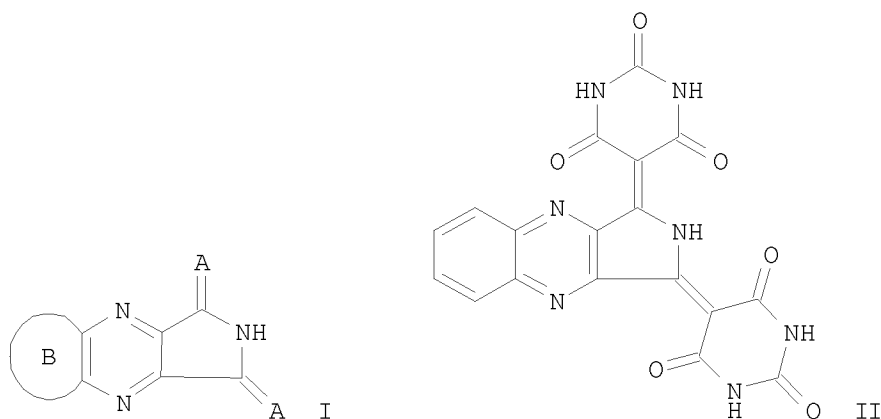
PATENT INFORMATION:

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WO 2004108836	A1	20041216	WO 2004-EP5459	20040521 <--
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GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,  
 LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO,  
 NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,  
 TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
 SN, TD, TG

DE 10326211 A1 20041230 DE 2003-10326211 20030611  
 EP 1639047 A1 20060329 EP 2004-739281 20040521 <--  
 EP 1639047 B1 20080423  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK  
 CN 1802419 A 20060712 CN 2004-80015988 20040521 <--  
 JP 2006527286 T 20061130 JP 2006-515783 20040521 <--  
 US 20070264600 A1 20071115 US 2007-560095 20070323 <--  
 PRIORITY APPLN. INFO.: DE 2003-10326211 A 20030611 <--  
 WO 2004-EP5459 W 20040521 <--

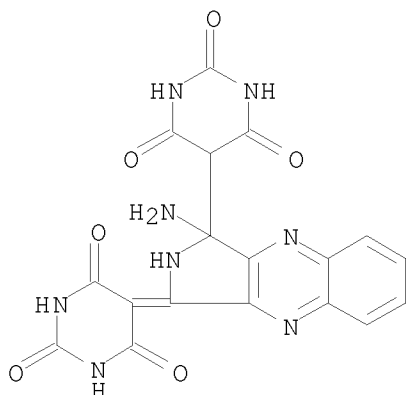
OTHER SOURCE(S): MARPAT 142:58224  
 GI



AB Diazabenzoisindoles I (A = aliphatic or heterocyclic carbonyl-containing fragments, B = optionally substituted ortho-C6-18 aryls) are useful in paints and printing inks with an alkyd resins binder. Thus, a pigment II [prepared by treating 1-amino-1-(2,4,6-trioxotetrahydropyrimidine-5-yl)-3-(2,4,6-trioxotetrahydropyrimidine-5-ylidene)-4,9-diazabenzof]isindole with H2SO4] is used with melamine-based alkyd resins binder as an yellow paint.

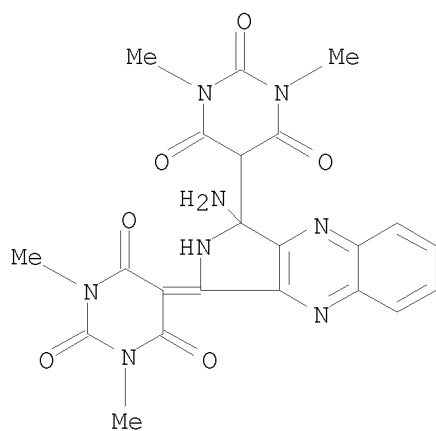
IT 808134-07-8P 808134-08-9P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (diazabenzoisindole pigments for paints and printing inks)

RN 808134-07-8 CAPLUS  
 CN 2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-[1-amino-2,3-dihydro-3-(tetrahydro-2,4,6-trioxo-5(2H)-pyrimidinylidene)-1H-pyrrolo[3,4-b]quinoxalin-1-yl]-(9CI) (CA INDEX NAME)



RN 808134-08-9 CAPLUS

CN 2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-[1-amino-2,3-dihydro-3-(tetrahydro-1,3-dimethyl-2,4,6-trioxo-5(2H)-pyrimidinylidene)-1H-pyrrolo[3,4-b]quinoxalin-1-yl]-1,3-dimethyl- (9CI) (CA INDEX NAME)



IT 808134-09-0P 808134-10-3P 808134-11-4P

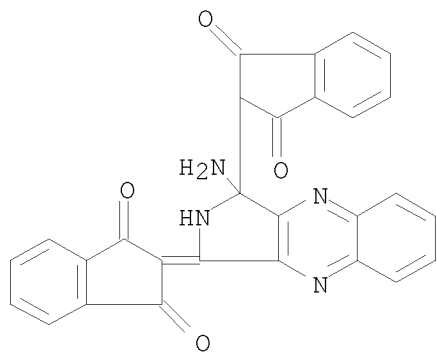
808134-12-5P 808134-13-6P 808134-14-7P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

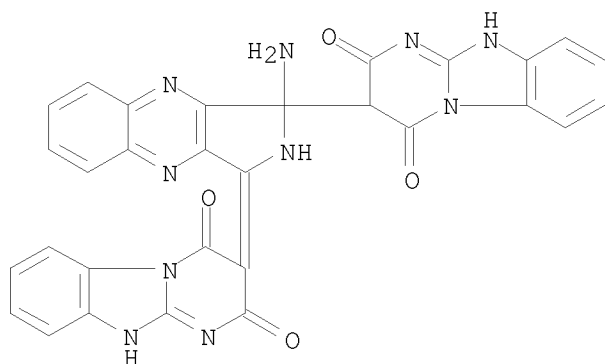
(diazabenzisoindole pigments for paints and printing inks)

RN 808134-09-0 CAPLUS

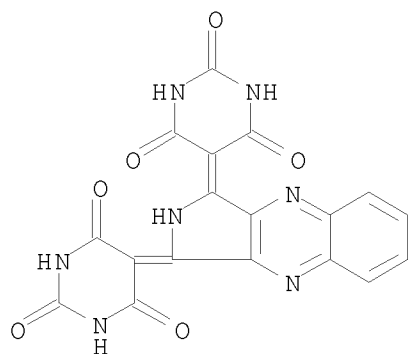
CN 1H-Indene-1,3(2H)-dione, 2-[3-amino-3-(2,3-dihydro-1,3-dioxo-1H-inden-2-yl)-2,3-dihydro-1H-pyrrolo[3,4-b]quinoxalin-1-ylidene]- (9CI) (CA INDEX NAME)



RN 808134-10-3 CAPLUS  
 CN Pyrimido[1,2-a]benzimidazole-2,4(1H,3H)-dione,  
 3-[1-amino-3-(1,2-dihydro-2,4-dioxypyrimido[1,2-a]benzimidazol-3(4H)-  
 ylidene)-2,3-dihydro-1H-pyrrolo[3,4-b]quinoxalin-1-yl]- (9CI) (CA INDEX  
 NAME)

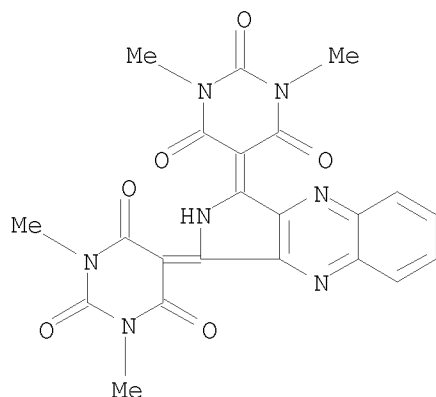


RN 808134-11-4 CAPLUS  
 CN 2,4,6(1H,3H,5H)-Pyrimidinetrione, 5,5'-(1H-pyrrolo[3,4-b]quinoxaline-  
 1,3(2H)-diylidene)bis- (9CI) (CA INDEX NAME)

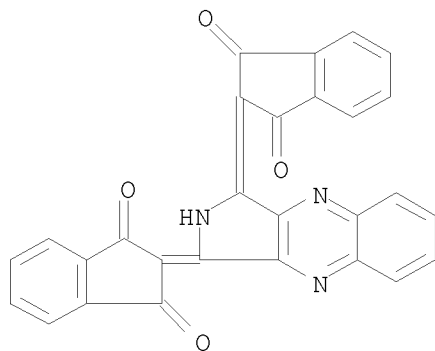


RN 808134-12-5 CAPLUS  
 CN 2,4,6(1H,3H,5H)-Pyrimidinetrione, 5,5'-(1H-pyrrolo[3,4-b]quinoxaline-  
 1,3(2H)-diylidene)bis[1,3-dimethyl- (9CI) (CA INDEX NAME)

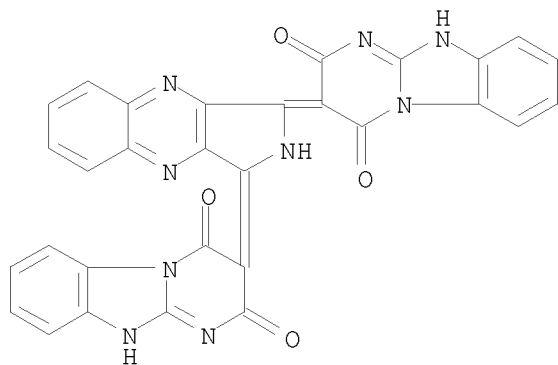




RN 808134-13-6 CAPLUS  
 CN 1H-Indene-1,3(2H)-dione, 2,2'-(1H-pyrrolo[3,4-b]quinoxaline-1,3(2H)-diylidene)bis- (9CI) (CA INDEX NAME)



RN 808134-14-7 CAPLUS  
 CN Pyrimido[1,2-a]benzimidazole-2,4-dione, 3,3'-(1H-pyrrolo[3,4-b]quinoxaline-1,3(2H)-diylidene)bis- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1994:101292 CAPLUS

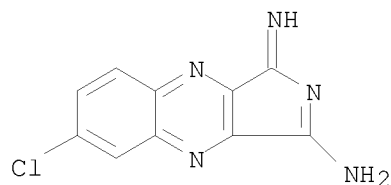
DOCUMENT NUMBER: 120:101292  
ORIGINAL REFERENCE NO.: 120:17823a,17826a  
TITLE: Water-soluble tetraazaporphines and fluorochromes for labeling  
INVENTOR(S): Tai, Seiji; Katayose, Mitsuo; Watanabe, Hiroo  
PATENT ASSIGNEE(S): Hitachi Chemical Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 110 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 502723	A2	19920909	EP 1992-301873	19920304 <--
EP 502723	A3	19930127		
EP 502723	B1	19961009		
R: DE, FR, GB, IT, NL				
JP 05163439	A	19930629	JP 1992-22192	19920207 <--
JP 2964761	B2	19991018		
US 5438135	A	19950801	US 1992-846169	19920305 <--
PRIORITY APPLN. INFO.:			JP 1991-38349	A 19910305 <--
			JP 1991-146005	A 19910618 <--
			JP 1991-159308	A 19910701 <--
			JP 1991-268016	A 19911017 <--

OTHER SOURCE(S): MARPAT 120:101292

AB Water-soluble tetraazaporphines, fluorochromes from them, biol. substances labeled with the fluorochromes, reagents comprising them, and their use in fluorescence anal. are described. A semiconductor laser having an output wavelength of 670-840 nm is used as a light source. Na bis(tributylsilyloxy)silicon tetraphenylthio(naphthalocyanine)octacarboxylate (I) (preparation described) was coupled to the 5'-end of ACACAACTGTGTTCACTAGC and used in the detection of the  $\beta$ -globin gene in human DNA. I was also coupled to PABA and morphine. Antimorphine monoclonal antibody had only slightly diminished affinity for the morphine conjugate.

IT 145614-76-2P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and reaction of, in tetraazaporphine fluorochrome label preparation)  
RN 145614-76-2 CAPLUS  
CN 1H-Pyrrolo[3,4-b]quinoxalin-3-amine, 6-chloro-1-imino- (CA INDEX NAME)

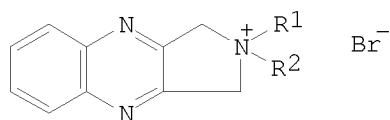


OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

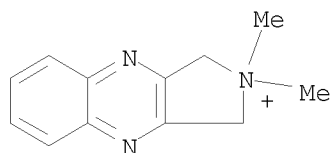
L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 1979:87445 CAPLUS  
DOCUMENT NUMBER: 90:87445  
ORIGINAL REFERENCE NO.: 90:13865a,13868a

TITLE: Derivatives of quinoxalino-[2,3-c]pyrroline  
 INVENTOR(S): Hahn, Witold; Lesiak, Jerzy  
 PATENT ASSIGNEE(S): Uniwersytet Lodzki, Pol.  
 SOURCE: Pol., 2 pp.  
 CODEN: POXXA7  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Polish  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PL 71049	A5	19740430	PL 1972-155806	19720605 <--
PRIORITY APPLN. INFO.: GI			PL 1972-155806	A 19720605 <--

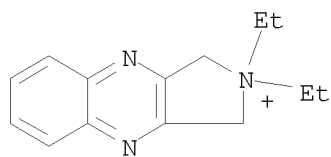


AB The title compds. (I; R = R1 = Me, Et, Pr, Bu, allyl, CH2CH2OH; R = Me, R1 = CH2Ph; NRR1 = pyrrolidino, morpholino) were prepared by heating EtOH solns. of 2,3-bis(bromomethyl)quinoxaline with 2 equiv RR1NH for .apprx.8 h at 20-100° (usually 30-50°).  
 IT 40197-24-8P 40197-25-9P 40197-26-0P  
 40197-27-1P 40197-28-2P 40197-29-3P  
 40197-30-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 40197-24-8 CAPLUS  
 CN 1H-Pyrrolo[3,4-b]quinoxalinium, 2,3-dihydro-2,2-dimethyl-, bromide (1:1)  
 (CA INDEX NAME)

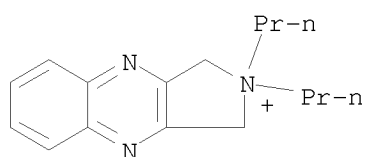


● Br<sup>-</sup>

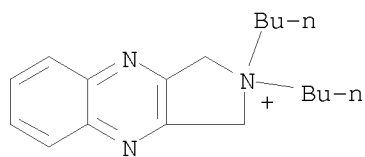
RN 40197-25-9 CAPLUS  
 CN 1H-Pyrrolo[3,4-b]quinoxalinium, 2,2-diethyl-2,3-dihydro-, bromide (1:1)  
 (CA INDEX NAME)



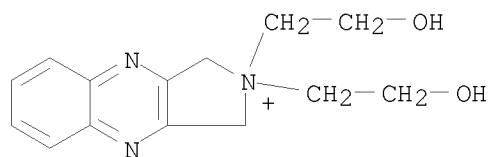
RN 40197-26-0 CAPLUS  
 CN 1H-Pyrrolo[3,4-b]quinoxalinium, 2,3-dihydro-2,2-dipropyl-, bromide (1:1)  
 (CA INDEX NAME)



RN 40197-27-1 CAPLUS  
 CN 1H-Pyrrolo[3,4-b]quinoxalinium, 2,2-dibutyl-2,3-dihydro-, bromide (1:1)  
 (CA INDEX NAME)

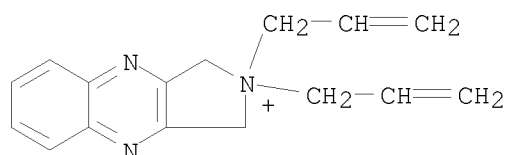


RN 40197-28-2 CAPLUS  
 CN 1H-Pyrrolo[3,4-b]quinoxalinium, 2,3-dihydro-2,2-bis(2-hydroxyethyl)-,  
 bromide (1:1) (CA INDEX NAME)



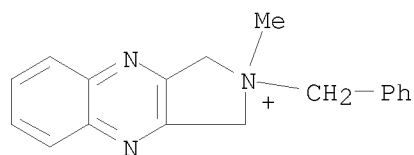
● Br<sup>-</sup>

RN 40197-29-3 CAPLUS  
 CN 1H-Pyrrolo[3,4-b]quinoxalinium, 2,3-dihydro-2,2-di-2-propen-1-yl-, bromide  
 (1:1) (CA INDEX NAME)



● Br<sup>-</sup>

RN 40197-30-6 CAPLUS  
 CN 1H-Pyrrolo[3,4-b]quinoxalinium, 2,3-dihydro-2-methyl-2-(phenylmethyl)-,  
 bromide (1:1) (CA INDEX NAME)

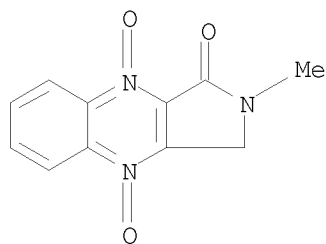


● Br<sup>-</sup>

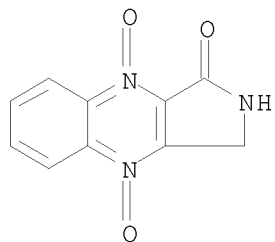
L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN  
 ACCESSION NUMBER: 1974:463674 CAPLUS  
 DOCUMENT NUMBER: 81:63674  
 ORIGINAL REFERENCE NO.: 81:10149a,10152a  
 TITLE: 3-Halomethyl-2-quinoxalinecarboxylic acid esters and  
 their cyclization products with amines  
 PATENT ASSIGNEE(S): Pfizer Inc.  
 SOURCE: Brit. Amended, 16 pp.  
 CODEN: BSXXAH  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1303372		19730117	GB 1970-43229	19700909 <--
PRIORITY APPLN. INFO.:			US 1970-25543	19700403 <--

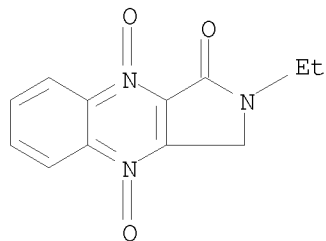
GI For diagram(s), see printed CA Issue.  
 AB The title esters I, II, and III were prepared from the appropriate benzofuroxans by successive treatment with MeCOCH<sub>2</sub>CO<sub>2</sub>Et and halogenation. Ring closure of I with R<sub>2</sub>NH<sub>2</sub> (R<sub>2</sub> = H, Me, Et) gave IV, which are in vitro and in vivo antibacterial agents and animal growth promotants.  
 IT 40970-22-7P 40970-23-8P 40970-24-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 40970-22-7 CAPLUS  
 CN 1H-Pyrrolo[3,4-b]quinoxalin-1-one, 2,3-dihydro-2-methyl-, 4,9-dioxide (CA INDEX NAME)



RN 40970-23-8 CAPLUS  
 CN 1H-Pyrrolo[3,4-b]quinoxalin-1-one, 2,3-dihydro-, 4,9-dioxide (CA INDEX NAME)



RN 40970-24-9 CAPLUS  
 CN 1H-Pyrrolo[3,4-b]quinoxalin-1-one, 2-ethyl-2,3-dihydro-, 4,9-dioxide (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD  
 (2 CITINGS)

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1973:124629 CAPLUS

DOCUMENT NUMBER: 78:124629

ORIGINAL REFERENCE NO.: 78:20027a,20030a

TITLE: 3-(Halomethyl)-2-quinoxalinecarboxylic acid esters and their cyclization products with amines

PATENT ASSIGNEE(S): Pfizer Inc.

SOURCE: Brit., 18 pp.

CODEN: BRXXAA

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1303372	A	19730117	GB 1970-43229	19700909 <--
US 3753987	A	19730821	US 1970-25543	19700403
CA 969956	A1	19750624	CA 1971-109462	19710402 <--
US 3773950	A	19731120	US 1972-235791	19720317 <--
PRIORITY APPLN. INFO.:			US 1970-25543	A 19700403 <--

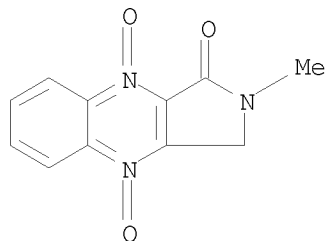
GI For diagram(s), see printed CA Issue.

AB The title quinoxalines (I; R = alkyl; R1 = H, halogen, CF3, Me, MeO; X = Cl, Br) and their amine cyclization products (II, R2 = H, alkyl), useful as antibacterials and animal growth promotants, were prepared Thus, addition of benzofuroxan to MeCOCH2CO2Et in NaOEt-EtOH gave I (R = Et; R1 = X =H) which on bromination in DMF with Br2 gave the title compound (I, R = Et, R1 = H, X = Br). Bubbling MeNH2 through the (bromomethyl)quinoxaline in MeCN at 10-13° gave the cyclization product (II, R1 = H, R2 = Me). The same pyrroloquinoxaline was prepared from benzofuroxan and 1-methyl-3-hydroxy-3-pyrrolin-5-one.

IT 40970-22-7P 40970-23-8P 40970-24-9P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

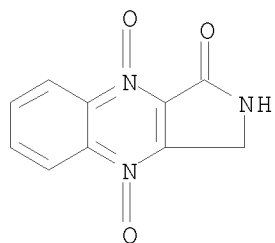
RN 40970-22-7 CAPLUS

CN 1H-Pyrrolo[3,4-b]quinoxalin-1-one, 2,3-dihydro-2-methyl-, 4,9-dioxide (CA INDEX NAME)

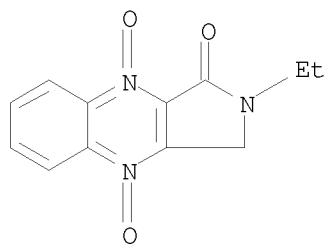


RN 40970-23-8 CAPLUS

CN 1H-Pyrrolo[3,4-b]quinoxalin-1-one, 2,3-dihydro-, 4,9-dioxide (CA INDEX NAME)



RN 40970-24-9 CAPLUS  
 CN 1H-Pyrrolo[3,4-b]quinoxalin-1-one, 2-ethyl-2,3-dihydro-, 4,9-dioxide (CA  
 INDEX NAME)



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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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